GLV-515 User Manual

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1. GLV-515 Features

1.1 Appearance



1.2 Interface



Power: Output Power:12VDC,800mA.

WAN: RJ45 port. LAN: RJ45 port.

1.3 Software

- Support two sip accounts at the same time.
- Redundancies server support.
- NAT, Firewall.
- DHCP client and server.
- Support PPPoE, (used for ADSL, cable modem connecting).
- Support major G7.xxx CODEC.
- VAD,CNG.

- G.165 compliant 16ms echo cancellation
- Tone generation and Local DTMF re-generation according with ITU-T
- E.164 dial plan and customized dial rules
- Hotline.
- Speed Dial
- Call Forward, Call Transfer, 3-way conference calls
- Record
- Caller ID display
- DND(Do Not Disturb), Black List, Limit List
- Upgrade firmware through FTP, TFTP or HTTP,.
- Web management.
- Telnet remote management.
- adjustable user password and super password

1.4 Standard and Protocols

- IEEE 802.3 /802.3 u 10 Base T / 100Base TX
- PPPoE: PPP Protocol over Ethernet
- DHCP Client and Server: Dynamic Host Configuration Protocol
- G.711 u/a; G729, G7231 5.3/6.3 audio Codec
- SIP RFC3261, RFC 2543
- TCP/IP: Internet transfer and control protocol
- RTP: Real-time Transport Protocol
- RTCP: Real-time Control Protocol
- VAD/CNG save bandwidth
- Telnet: Internet's remote login protocol
- DNS: Domain Name Server
- TFTP: Trivial File Transfer Protocol
- HTTP: Hyper Text Transfer protocol
- FTP: File Transfer protocol

1.5 Operating requirement

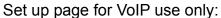
- Operation temperature: 0 to 40° C (32° to 104° F)
- Storage temperature: -30° to 65° C (-22° to 149° F)
- Humidity: 10 to 90% no dew

1.6 Package

- Size: 338×220×85mm
- Packing List
 - ✓ One GLV-515 IP phone
 - ✓ One Power adaptor
 - ✓ One CD

1.7 Installation

Use ethernet cable to connect GLV-515's LAN port and your computer. Set your computer's ip to the network 192.168.10.x or using dynamic obtain IP. Open your web browser and key in 192.168.10.1. Then you will see the logon page of GLV-515, the default username and password is admin/admin for administrator and guest/guest for guest.





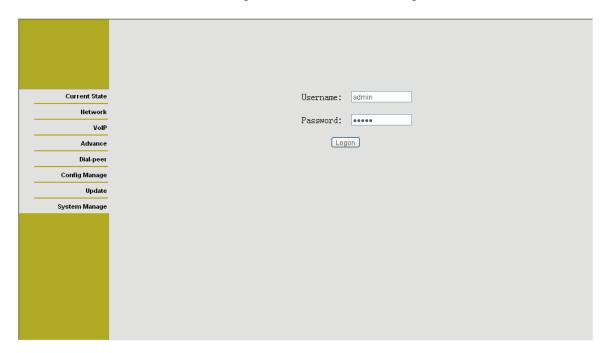
2. Web Configuration

2.1 Access Web setting page

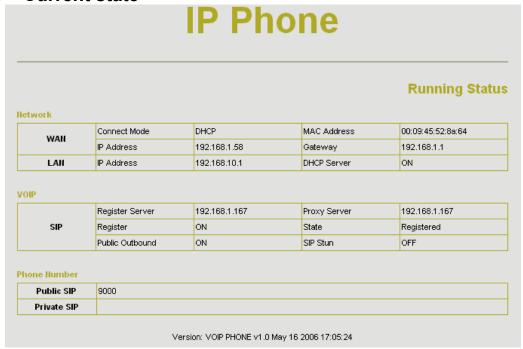
Enter GLV-515 IP address in the web browser and press ENTER to go to the log on page, and key in the username and password to access GLV-515 setting page.

Default username and password is:

Administrator: Username: admin password: admin User: Username: guest Username: guest



2.2 Current state



This page shows GLV-515's running state.

Network shows the WAN and LAN port connecting state and current settings.

VoIP part show the working state of VoIP, you can see whether GLV-515 has registered the public sip server or H323 server.

Phone Number shows the H323, public sip and private sip phone numbers.

2.3 Network

2.3.1 Wan Config

						WAN Configuration	
Act	tive IP	С	urrent Netmask	IV	IAC Address	Current Gateway	
192.1	68.1.58		255.255.255.0	00	:09:45:52:8a:64	192.168.1.1	
Mac	Authenti	ating Code				Valid MAC	
O Static	O DHCF	O PPPC	Ε				
O Static		O PPPC	192.168.1.179		Netmask	255.255.255.0	
Static Static	IP				Netrnask DNS Domain	255.255.255.0	
	IP G	Address	192.168.1.179			255.255.265.0	
	IP G	Address	192.168.1.179 192.168.1.1		DNS Domain		
	IP G Prir	Address	192.168.1.179 192.168.1.1		DNS Domain		
Static	IP G Prir	Address ateway nary DNS	192.168.1.179 192.168.1.1		DNS Domain		

WAN port network setting page.

Support static IP, dynamic obtain IP and PPPoE.

- Configure Static IP:
 - ----Enable Static;
 - ----Set GLV-515's IP address in the IP Address;
 - ----Set netmask in the Netmask field;
 - ----Set router IP address in the Gateway;
 - ----DNS Domain:
 - ----Set local DNS server in the Preferred DNS and the Alternate DNS
- Configure to dynamic obtain IP
 - ----Enable DHCP;

If there is DHCP server in your local network, GLV-515 will automatically obtain WAN port network information from your DHCP server.

- Configure PPPoE:
 - ----Enable PPPoE
 - ----PPPoE server. Enter "ANY" if no specified from your ITSP.
 - ----Enter PPPoE username and pin in the *username* and *password*.

GLV-515 will automatically obtain WAN port network information from your ITSP if PPPoE setting and the setup are correct.

Notice: If user accesses the IP phone through WAN port. He/She should use the new IP address to access the IP phone when the WAN port address was changed.

2.3.2 LAN Config

	LAN Configuration
Bridge Mode	
P 192.168.10.1	Netmask 255.255.255.0
P 192.168.10.1 ☑ DHCP Service	Netmask 255.255.255.0 ✓ NAT

Bridge Mode: Enable this option to switch to bridge mode. IP phone won't assign IP for its LAN port in bridge mode and its LAN and WAN port will be in the same network. (This setting won't take effect unless you save the config and reboot the device)

IP, Netmask: Set the IP and Netmask for the LAN

DHCP Server: Enable DHCP service in LAN port

NAT: Enable NAT.

Highest Priority of Voice Quality: Enable this option to guarantee voice quality. If there is high flux in the LAN port, GLV-515 will limit the stream rate.

2.4 VolP

2.4.1 SIP Config

IP Phone						
				SIP[Unregis	tered] Con	figuration
Register Server Addr	192.168.1.1	67		Proxy Server Addr		
Register Server Port	5060			Proxy Server Port		
Register Username	9000			Proxy Username		
Register Password	••••			Proxy Password		
Domain Realm				Local SIP Port	5060	
Phone Number	9000			Register Expire Time	60	seconds
Detect Interval Time	60	seconds	3	RFC Protocol Edition	RFC3261 🕶	
DTMF Mode	DTMF_REL	AY 🔽		User Agent	common	
☑ Enable Register				Auto Detect Server		
☑ Enable Pub Outbound Pr	оху			Server Auto Swap		
			Α	oply		

Setting page of public SIP server:

Register Server Addr: Register address of public SIP server Register Server Port: Register port of public SIP server

Register Username: Username of your SIP account (Always the same as the

phone number)

Register Password: Password of your SIP account.

Proxy Server Addr: IP address of proxy SIP server (SIP provider always use the same IP for register server and proxy server, in this case you don't need to configure the proxy server information.)

Proxy Server Port: Signal port of SIP proxy Proxy Username: proxy server username proxy Password: proxy server password

Domain Realm: SIP domain, enter the sip domain if any, otherwise

GLV-515 will use the proxy server address as sip domain.

Local SIP port:

Local SIP register port, default 5060

Phone Number:

Phone number of your SIP account

Register Expire Time: register expire time, default is 600 seconds. GLV-515 will auto configure this expire time to the server recommended setting if it is different from the SIP server.

Detect Interval Time: Co-work with the *Auto Detect Server*, if *Auto Detect Server* is enable, GLV-515 will periodically detect if the SIP server is available according this setting.

RFC Protocol Edition: Current GLV-515 SIP version. Set to RFC 2543 if the gate need to communicate to devices (such as CISCO5300) using the SIP 1.0. Default is RFC 3261.

Enable Register: Enable/Disable SIP register. GLV-515 won't sent register info to SIP server if disable register.

DTMF Mode: DTMF signal sending mode: support RFC2833, DTMF_RELAY (inband audio) and SIP info

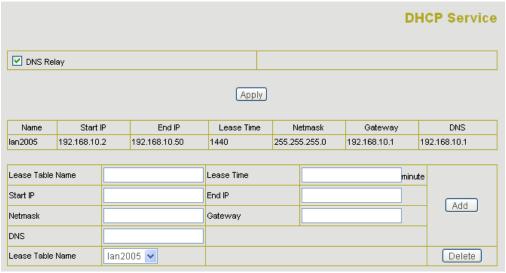
Auto Detect server: co-work with Server Auto Swap and Detect Interval Time. Enable this option, GLV-515 will periodically detect whether the public SIP server is available, if the server is unavailable, the GLV-515 will switch to the back-up SIP sever, and continue detecting the public sip server. GLV-515 will switch back to the primary SIP server if the server is available again.

Server Auto Swap: Please refer to Auto Detect server for detail.

SIP(Default Protocol): Use SIP protocol as Default Protocol.

2.5 Advance

2.5.1 DHCP Server



DHCP server manage page.

User may trace and modify DHCP server information in this page.

DNS Relay: enable DNS relay function.

User may use below setting to add a new lease table.

Lease Table Name: Lease table name.

Lease Time: DHCP server lease time.

Start IP: Start IP of lease table.

End IP: End IP of lease table. Network device connecting to the GLV-515 LAN port can dynamic obtain the IP in the range between start IP and end IP.

Netmask: Netmask of lease table.

Gateway: Default gateway of lease table DNS: default DNS server of lease table.

Notice: This setting won't take effect unless you save the config and reboot the device

2.5.2 NAT

	IP	Pl	non	е		
					NAT	Configuration
✓ IPSec ALG			FTP ALG			
✓ PPTP ALG						
		Ар	ply			
Inside IP	Inside TC	P Port		Outside	TCP Port	
Inside IP	Inside UD	P Port		Outside	UDP Port	
Transfer Type	TCP 💌		Outside Port			
Inside Ip			Inside Port			
	Ad	d	Delete			
						DMZ Table
	Outside IP				Inside IP	
Outside IP		Inside IP				Add
Outside IP	<u> </u>					Delete

Advance NAT setting. Maximum 10 items for TCP and UDP port mapping.

H323 ALG: Enable/Disable H323 ALG; IPSec ALG: Enable/Disable IPSec ALG; FTP ALG: Enable/Disable FTP ALG; Enable/Disable PPTP ALG;

Transfer Type: Transfer type using port mapping.

Inside IP: LAN device IP for port mapping.

LAN device port for port mapping.

Outside Port: WAN port for port mapping.

Click Add to add new port mapping item and Delete to delete current port mapping item.

2.5.3 Net Service



HTTP Port: configure HTTP transfer port, default is 80.User may change this port to enhance system's security. When this port is changed, please use http://xxx.xxx.xxx.xxxxxxxx/ to reconnect.

Telnet Port: configure telnet transfer port, default is 23.

RTP Initial Port: RTP initial port.

RTP Port Quantity: Maximum RTP port quantity, default is 200

Notice:

Settings in this page won't take effect unless save and reboot the device.

If you need to change telnet port or HTTP port, please use the port greater than 1024, because ports under 1024 is system remain ports.

HTTP service if HTTP is set to 0.

2.5.4 Firewall settings

in_access enabl	e				cess enable			
			[A]	ply		Firewall In	put Rule	Tal
Index Deny/Permit	Protocol	Src Addr	Src Mask	D	es Addr	Des Mask	Range	Po
ndex Deny/Permit	Protocol	Src Addr	Src Mask	Des	s Addr	Des Mask	Range	Port
		Src Addr			s Addr			
nput/Output Input	~	Src Addr	D	eny/Permit	s Addr	Des Mask		
nput/Output Input Protocol Type UDP	~	Src Addr	D	eny/Permit	s Addr	Des Mask		
Input/Output Input Protocol Type UDP Src Addr	~	Src Addr	D P	eny/Permit ort Range	s Addr	Des Mask		
Index Deny/Permit Input/Output Input Protocol Type UDP Src Addr Src Mask	~	Src Addr	D P	eny/Permit ort Range es Addr es Mask	s Addr	Des Mask		

Firewall setting page. User may set up firewall to prevent unauthorized Internet users from accessing private networks connected to the Internet (input rule), or prevent unauthorized private network devices to access the internet.

Access list support two type limits: input_access limit or output_access limit. Each type support 10 items maximum.

GLV-515 firewall filter is base WAN port. So the source address or input destination address should be WAN port IP address.

Configuration:

in access enable enable in access rule out access enable enable out access rule

Input/Output: specify current adding rule is input rule or output rule. specify current adding rule is deny rule or permit rule. Deny/Permit:

Protocol Type: protocol using in this rule: TCP/IP/ICMP/UDP.

port range if this rule Port Range:

source address. Can be single IP address or network address. Src Addr: destination address. Can be IP address or network address. Dest Addr: source address mask. Indicate the source is dedicate IP if set to Src Mask:

255.255.255.255. Otherwise is network ID

Des Mask: Destination address mask. Indicate the source is dedicate IP if set to 255.255.255.255. Otherwise is network ID

2.5.5 QoS settings

<u> </u>	802.1p Configuration
QOS Enable	QOS Table Include
	Submit
IP	Hetmask
IP IP	Hetmask
	Hetmask

GLV-515 IP phone implement QoS based on 802.1p, The QoS is used to mark the network communication priority in the data link/MAC sub-layer. GLV-515 will sorted the packets using the QoS and sends it to the destination.

QoS Enable: Enable QoS service.

QoS Table Include: enable include QoS table, GLV-515 will only provide QoS service to the network address included in the QoS table. Disable the option. GLV-515 provides QoS service to the network address outside the QoS table.

QoS Table Item: user can set the QoS Table using IP and Netmask. the IP can be network address or dedicate IP address (set netmask to 255.255.255.255)

Delete QoS Table: enter the IP/Netmask configure and select delete to delete corresponding item.

2.5.6 Advance SIP settings

	_	Public[Registered	ance SIP Configuratio]Private[Unregistered AT Transverse[FALSE
STUN Server Addr		STUN Server Port	3478
Public Alter Register		Public Alter Proxy	
Register Port	5060	Proxy Port	
Register Username		Proxy Username	
Register Password		Proxy Password	
Private Register		Private Proxy	
Register Port	5060	Proxy Port	
Register Username		Proxy Username	
Register Password		Proxy Password	
Private Domain		Expire Time	60 seconds
Private Number		STUN Effect Time	50 minute
Private User Agent	common	☐ Enable SIP Stun	
Enable Private Registe	r	Enable Private Outbou	nd Proxy

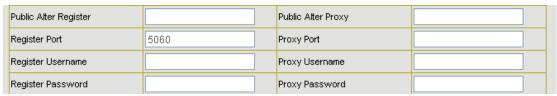
This page is used to set the private sip server, stun server, and back up sip server information.

STUN Server setting:

STUN Server Addr: configure stun server address;

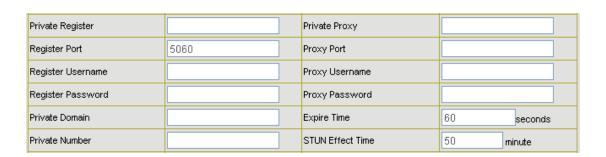
STUN Server Port: configure stun server port default 3478 STUN Effect Time: stun detect NAT type circle, unit: minute.

Enable SIP STUN: enable/disable stun.



Public Alter Register Public Alter server provide redundancy for the public server, if the public server is unavailable, GLV-515 will use the alter server, and switch back to the public server when it is available. Account setting in public alter setting should be the same as the public server.

Please refer to <u>SIP Config</u> for the setting for how to set the public alter server.



User can register two sip servers: public sip server and private sip server.these two sip servers are independent from each other and running in the same time.

For how to configure private sip server. Please refer to SIP Config

2.5.7 Digital Map

			Digital Map Configuration
	• End with "#"		
	O Fixed Length	11	
	O User-defined I	Rule	
	✓ Time out 5	(330)	
		Apply	
		Digital Map Tabl	le .
Prefix Number		Digital Map Tabl	le .
	L	A Committee of the Comm	le .
Prefix Humber Prefix Humber		Length	Add

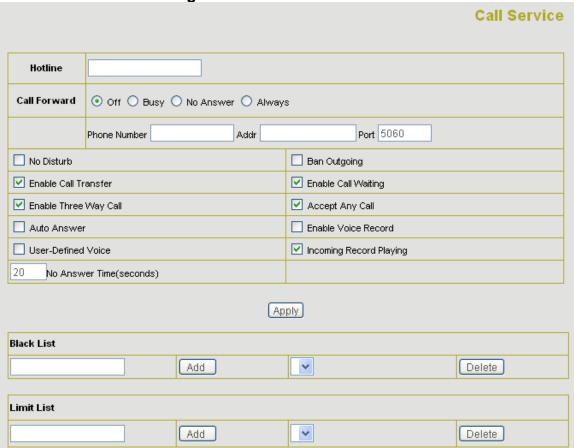
Digit map is a set of rules to determine when the user has finished dialing.

GLV-515 support below digital map:

Digital Map is based on some rules to judge when user end their dialing and send the number to the server. GLV-515 support following digital map:

- ----End With "#": Use # as the end of dialing.
- ----Fixed Length: When the length of the dialing match, the call will be sent.
- ----Timeout: Specify the timeout of the last dial digit. The call will be sent after timeout
- ----Prefix + Length: If the Prefix and Length match, the call will be sent.

2.5.8 Call Service Settings



User configure the value add service such as hotline, call forward, call transfer, 3-way conference call .etc in this page

Hotline: configure hotline number. GLV-515 immediately dials this number after hook-off if it is set.

Call Forward: Please refer to Value add service for detail.

No Disturb: DND, do not disturb, enable this option to refuse any calls.

Ban Outgoing: Enable this to ban outgoing calls.

Enable Call Transfer: Please refer to Value add service for detail.

Enable Three Way Call: Please refer to Value add service for detail.

Enable Call Waiting: Enable/disable Call Waiting

Accept Any Call: If this option is disable, GLV-515 refuse the incoming call when the called number is different from GLV-515's phone number.

No Answer Time: no answer call forward time setting.

Auto Answer: Enable/disable auto answer function.

Enable Voice Record: Enable/disable answering machine function. Please refer to Record Function for detail.

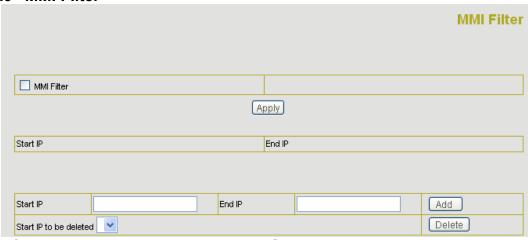
User-defined Voice: Use customized greeting message.

Incoming Record Playing: simultaneously play the message when recording.

Black List: incoming call in these phone numbers will be refused.

Limit List: outgoing calls with these phone numbers will be refused

2.5.9 MMI Filter



MMI filter is used to make access limit to GLV-515 IP phone.

When MMI filter is enable. Only IP address within the *start IP* and *end IP* can access GLV-515 IP phone.

2.5.10 Audio Settings

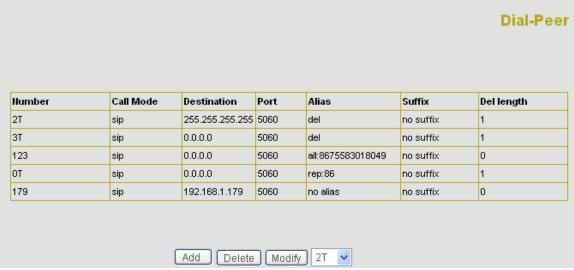


CODEC: select the prefer CODEC; support ulaw, alaw, G729 and G7231 5.3/6.3

Signal Standard: Signal standard for different area.

Input Volume: Handset in volume.
Output Volume: Handset out volume.
Handfree Volume: Hand free volume
Handdown Time: hand down detect time.
G729 Payload Length: G729 payload length
VAD: Enable/disable Voice Activity Detection

2.6 Dial-Peer Settings



Please refer to How to use dial rule for detail.

2.7 Config Manage

Save Config: save current settings.
Clear Config: restore to default settings.

Notice: clear config in admin mode, all settings restores to factory default; clear config in guest modem, all settings except H323, sip, advance sip restore to factory default.

2.8 Update

Web Update: Update IP phone's settings or firmware. Firmware file is .z extension when configure file is .cfg extension, GLV-515 will auto select configure update or firmware update according the extension.

TFTP/FTP Update: upload/download the configure file with FTP or TFTP server. or download firmware from FTP or TFTP server

2.9 System Manage 2.9.1 Account Manage

		Account Co	onfiguration
Keypad password	•••		
	Apply		
User Name	User L	.evel	
admin	Root		
guest	Genera	al	
	Add Delete Modify	guest 💌	

Set web access account or keypad password of GLV-515.

2.9.2 Phone Book:

2.9.3 Syslog Config:

2.9.4 Time Set:

2.9.5 **Reboot**:

Reboot IP phone, some setting needs to reboot to make it works. Please always save config before reboot, otherwise the setting will return to previous setting.

3 Use keypad configure GLV-515 IP phone

3.1 Keypad function

User can configure GLV-515 through its keypad. List below is the keypad function

Keypad	Mode	Function/Display
Idle mode		show current time
Sysinfo	Idle mode	circularly show phone number,wan ip, gateway info
Menu/OK	Idle mode	enter config mode, default password 123
	config mode	confirm or enter sub-menu
Exit	config mode	exit
Up	Calling mode	volume up (Max:9)
	config mode	Page up
Down	Calling mode	volume down (Min:1)
	config mode	Page down
Del	Calling mode	Delete digits
	config mode	Delete digits
Mute	Calling mode	Mute
Out call	Idle mode	Outgoing call menu
In call	Idle mode	Incoming call menu
Record	Idle mode	Enter record menu, usage refer FAQ
Pbook	Idle mode	Enter Phone book set up
Handfree	Calling mode	Handfree
0□9	Calling mode	Digits 0~9
	config mode	Hit quickly to switch between numeric or alphabetic
*	Calling mode	Use in 3-way conference call.
	config mode	Use as "." In the ip address setting
#	Calling mode	Use as end key of dialing or the dial number
Hold	Calling mode	Hold, detail refer value add service
FWD	Calling mode	Transfer, detail refer value add service
Redial	Calling mode	Redial key
Send	Calling mode	call key
No.1~No.9	Idle mode	Speed dial key

3.2 Keypad Menu

User may use **SET**, **Menu/ok**, **Exit**, **Vol+**, **Vol-** to config GLV-515 detail setting. Press **Menu/ok** to enter config mode, and the default password is 123.

Below list the keypad menu of GLV-515

GLV-515 Keypad Menu					
Level 1	Level 2	Level 3	Level 4		
Network	LAN	IP			
		Netmask			
		DHCP Server			
		NAT	Switch		
			FTPalg		
			IPSec alg		
			PPTPalg		
	WAN	Status			
		Static Net	1. IP		
			2. NetMask		
			3. Gateway		
			4. DNS		
			5. DNS2		
		PPPoE	User name		
			Password		
		QoS			
	T=				
Call Feature	Phone-number	H323			
		Public SIP			
		Private SIP			
	Limit-List	Current			
		ADD			
		DEL			
	Black-List	Current			
		ADD			
		DEL			
	FastCall				
	Three Call				
	Call-Transfer				
	Call-Waiting				
	Call-Forward	Condition			

		H.323	Transfer Num		
			Transfer IP		
			Port		
		SIP	Transfer Num		
			Transfer IP		
			Port		
	Dial-Rule	End With #			
		Fixed Length	Switch		
			Length		
	•	•			
SIP	Reg Status	Public Reg			
		Private Reg			
	Reg Switch	Public			
		Private			
	Server	Public	Register		
			Proxy		
			Alt-Register		
			Alt-Proxy		
		Private	Register		
			Proxy		
	Domain	Public			
		Private			
	User Agent	Public			
		Private			
	Detect-server				
	Dtmf-mode				
	Interval-time				
	Swap-server				
	RFC-version				
	Signal-Port				
	Stun	Switch			
		Addr			
		Port			
		Effect Time			
DSP	Codec				
	Handdown-time				
	Dtmf-Volume				

	Input-volume Output-Volume			
Other Setting	Syslog	Switch		
		Server-IP		
		Server-Port		
4. System	1. Save			
	2. Reboot			
	3. Set Default			

4 Telnet Console

4.1 Introduce

4.1.1 Basic structure

User may use telnet command to access and manage IP phone.

GLV-515 adopts tree structure for telnet. Every node contains its sub-nodes or local command. User can type "help" or "?" whenever to see sub-nodes and all local command under current node.

Besides local command, there are some global commands can be used in each node.

4.1.2 Basic command

Logout: exit telnet mode.

Write: save current settings.

Type sub-nodes name in current node to switch to sub-node. Type "!" or "exit" in current node to return to parent-node.

Type "help" or "?" can see all sub-nodes and all local command under current node, every help item has comments such as <command> or <node> to distinguish sub-nodes and local command. Type "help" or "?" in command can see all parameters using in this command.

When typing node name or command, user no need to key the full name, use TAB button will make it more efficient.

There are two types in command parameters: optional and required. "required" parameter use "-" as prefix and "optional" use "_" as prefix. User may type "-" or "_" then press TAB button for complementarily.

4.2 Global Command

Global command is available under all nodes, GLV-515 support following commands:

Command	Function	Example
chinese	Set to Chinese UI	#chinese
clear	Clear telnet screen	#clear
english	Set to English UI	#english
exit	Return to parent-node	#exit
help	1□ Show help info	1 □#help ping
	2□ Show sub-nodes and local command	2□#help
history	Show command history	#history
logout	Exit	#logout
ping	Ping command, use to check network,	#ping www.google.com
tree	Print tree structure of current command	#tree
who	Show current user	#who
write	Save setting to flash	#write

4.3 Tree Structure

4.3.1 account

path: <account>#

[stop]start Syslog ---syslog [no] start

Configure Syslog server address and port ---syslog server -ip x.x.x.x _port xxx

Example: #<config-account-syslog>#server –ip 202.112.20.10

Show syslog settings ---syslog show

Show all account settings ---show

4.3.2 config

accesslist firewall config

path: <config-accesslist>#

add firewall rule ---entry -I/O xxx -P/D xxx -proto xxx -srcaddr x.x.x.x -srcmask x.x.x.x-desaddr x.x.x.x -desmask x.x.x.x -portrange xxx -portnum xxx **Example:**<config-accesslist>#entry -I/O input -P/D deny -proto udp -straddr 202.112.10.1 -srcmask 255.255.255.0 -desaddr 210.25.132.1 -desmask 255.255.255.0 -portrange neq -portnum 5060

delete firewall rule ---no entry -I/O xxx -index xxx

Example :<config-accesslist>#no entry –I/O input –index 1

Show firewall settings ---show

[disable] enable input filter ---[no]in-access [disable] enable output filter ---[no]out-access

DHCP

path: <config-dhcp>#

add DHCP rule ---entry -name xxx -startip x.x.x.x -endip x.x.x.x

-netmask x.x.x.x -gateway x.x.x.x -dnsserver x.x.x.x time xxx

Example:<config-dhcp>#entry -name lan2004 -startip 192.168.1.2 -endip 192.168.1.254

-netmask 255.255.255.0 -gateway 192.168.1.1 -dnsserver 192.168.10.18 delete DHCP rule ---no entry -name xxx

Example: <config-dhcp>#no entry –name lan2004

Show DHCP settings ---show

[disable]enable DNS-relay ---[no]dns-relay

dialrule

path: <config-dialrule>#

[disable] enable End with # ---[no]endchar Set end with fix length ---fixlen xxx Disable end with fix length ---no fixlen

Set timeout to send ---timeout-send xxx
Disable timeout to send ---no timeout-send

Add digital map ---entry –prefix xxx –length xxx

Example: <config-dialrule>#entry –prefix 010 –length 11

Delete digital map rule ---no entry –prefix xxx

Example: <config-dialrule>#no entry –prefix 010 Show current digital map ---show

LAN interface settings

path: <config-interface-fastethernet-lan>#

[disable]enable bridge mode ---[no]bridgemode [disable]enable DHCP service ---[no]dhcp-server

[disable]enable NAT ---[no]nat

Show current DHCP rules ---dhcpshow
Show LAN port IP address ---ipshow
Show NAT info ---natshow

Change LAN port IP address ---ip –addr x.x.x.x –mask x.x.x.x

Example: < config-interface-fastethernet-lan>#ip -addr 192.168.1.10 -mask 255.255.255.0

WAN interface settings

path: <config-interface-fastethernet-wan>#
[disable]enable dhcp client ---[no]dhcp
[disable]enable pppoe ---[no]pppoe
[disable]enable QOS ---[no]qos
Set default gateway IP ---gateway x.x.x.x
Clear default gateway IP ---no gateway

Set WAN port IP address ---ip -address x.x.x.x -mask x.x.x.x

Example:<config-interface-fastethernet-wan>#ip —addr 202.112.241.100 —mask

255.255.255.0

You need to reconnect if the WAN port has been changed.

Show WAN port settings ---show

> MMI Filter

path: <config-mmifilter>#

add filter rule ---entry –start x.x.x.x –end x.x.x.x **Example:**<config-mmifilter>#entry –start 202.112.20.1 –end 202.112.20.255

Delete filter rule ---no entry –start x.x.x.x

Example: < config-mmifilter> #no entry - start 202.112.20.1

Show filter rule ---show

[disable]enable MMI filter ---[no]start-filter

NAT settings

path: <config-nat>#
[disable]enable ftp alg ---[no]ftpalg
[disable]enable ipsec alg
[disable]enable pptp alg ---[no]pptpalg

Add TCP mapping rule ---tcp-entry -ip x.x.x.x -lanport xxx -wanport

XXX

Example:<config-nat>#tcp-entry -ip 192.168.1.5 -lanport 1720 -wanport 1000

Delete TCP mapping rule ---no entry –ip x.x.x.x –lanport xxx –wanport xxx

Example:<config-nat>#no tcp-entry -ip 192.168.1.5 -lanport 5060 -wanport 1000

Add UDP mapping rule ---udp-entry -ip x.x.x.x -lanport xxx -wanport xxx

Delete UDP mapping rule ---no udp-entry -ip x.x.x.x -lanport xxx -wanport xxx

Show NAT info ---show

Netservice

path: <config-netservice>#

Set DNS address ---dns -ip x.x.x.x _domain xxx **Example:**<config-netservice>#dns -ip 202.112.10.36 _domain voip.com
Set alternate DNS address ---alterdns -ip x.x.x.x _domain xxx

Set hostname ---hostname xxx
Set http access port ---http-port xxx

Show http access setting ---http-port Set telnet access port ---telnet-port xxx Show telnet access port ---telnet-port Set RTP initial port and quantity ---media-port –startport xxx –number xxxx **Example:**<config-netservice>#media-port -startport 10000 -number 200 Add route rule ---route -gateway x.x.x.x -addr x.x.x.x -mask x.x.x.x Example: Arcihfone < config-netservice > #route - gateway 202.112.10.1 - addr 202.112.210.1 -mask 255.255.255.0 Delete route rule ---no route –gateway x.x.x.x –addr x.x.x.x –mask x.x.x.x Show route info ---route Show netservice info ---show \triangleright Dial-peer settings <config-pbook># path: [disable]enable calling through GK and proxy ---[no]enableGKandProxy ---entry –number xxx –ip x.x.x.x –protocol xxx Add number-IP bond entry **Example:**<config-pbook>#entry -number 100 -ip 202.112.20.100 -protocol sip Add number-IP bond and add prefix to the dial number ---entry –number xxx –ip x.x.x.x –protocol xxx add xxx Example:<config-pbook>#entry -number 100 -ip 202.112.20.100 -protocol sip add 123(dial 100 and will send 123100 according this rule) Add number-IP bond and replace the destination with another number ---entry –number xxx –ip x.x.x.x –protocol xxx all xxx Example:<config-pbook>#entry -number 100 -ip 202.112.20.100 -protocol sip _all 123(user dial 100 and gateway will sent 100 instead) Add number-IP bond and delete the prefix of the destination number ---entry –number xxx –ip x.x.x.x –protocol xxx del xxx Example: <config-pbook>#entry -number 1234 -ip 202.112.20.100 -protocol sip _del 2 (dial 1234 will send 34 instead) Add number-IP bond and replace the prefix with another number ---entry –number xxx –ip x.x.x.x –protocol xxx rep xxx length xxx Example:<config-pbook>#entry -number 1234 -ip 202.112.20.100 -protocol sip rep 567 length 2(dial 1234 will send 56734) Delete dial-peer entry ---no entry -number xxx Show current dial-peer rules Set default voip protocol ---default-protocol xxx Port settings path: <config-port># □<config-port X># set accecp relay mode ---accept-relay xxx set callerid mode ---callerid xxx disable callerid ---no callerid config call forward ---callforward –conditon xxx –number xxx –ip xxx –port xxx –protocol Example: < config-port 0>#callforward – condition busy – number 100 – ip 202.112.10.100 - port 5060 -protocol sip

Set alter proxy info

xxx _password xxx Set alter server info

Disable call forward ---no callforward [disable]enable call transfer ---[no]calltransfer [disable]enable call waiting ---[no]callwaiting Set prefer codec ---codec xxx Set DTMF gain ---dtmfvolume xxx Set black list ---in-limit xxx Show black list ---in-limit Set input volume ---input xxx Set outgoing limit list ---out-limit xxx Show outgoing limit list ---out-limit Set output volume ---output xxx [disable]enable outgoing limit ---[no]shutdown out [disable]enable black list ---[no]shutdown in [disable]enable outgoing limit and black list ---[no]shutdown [disable]enable 3-way conference ---[no]threetalk Show port settings ---show PPPoE settings <config-pppoe># path: PPPoE account settings ---auth -user xxx -password xxx **Example:**<config-pppoe>#auth -user aaa -password 123456 [disable]enable service settings ---[no]service xxx Show pppoe settings ---show \triangleright QOS settings <config-gos># path: [delete]add QoS table entry --- [no]entry -addr x.x.x.x -mask x.x.x.x **Example:**<config-gos>#entry -addr 202.112.10.1 -mask 255.255.255.0 [disable]enable include QOS table ---[no]include Show QoS settings \triangleright SIP settings path: <config-sip># [disable]enable registration ---[no] register [disable]enable auto detect server ---[no] detect-server Set sip domain ---default-domain xxx Set DTMF mode ---dtmf-mode xxx Set auto detect interval time ---interval-time xxx Set RFC edition ---rfc-version xxx [disable]enable auto swap server --- [no]swap-server Set sip account ---number-password –number xxx –password xxx Set local SIP signal port --- signalport xxx Set proxy server ---server proxy -ip x.x.x.x port xxx user xxx password xxx **Example:**<config-sip-server># proxy ip 210.25.23.22 _port 5060 _user aaa _password 123456 Set register server info ---server register -ip x.x.x.x port xxx –user xxx password xxx

---alter-server proxy -ip x.x.x.x _port xxx _user

---alter-server register -ip x.x.x.x port xxx

_user xxx _password xxx [disable]enable stun server

Set stun detecting interval time ---stun interval-time xxx
Set stun server ip and port ---stun –ip x.x.x.x –port xxx

Show current sip info ---show

User management

path: <config-user>#

Change user right. ---access –user xxx –access xxx

Example:<config-user>#access –user aaa –access 7

Change user password ---password –user xxx

Add new user ---entry –user xxx –access xxx

---stun [no]enable

Example:<config-user>#entry -user abc -access 7

Delete user entry ---no entry -user xxx

Show current sip info ---show

4.3.3 Debug (Level 0~7)

<debug># path: show debug setting ---show [disable]enable debug all modules ---[no] all xxx [disable]enable debug app module ---[no] app xxx ---[no] cdr xxx [disable]enable debug cdr module ---[no] sip xxx [disable]enable debug sip module [disable]enable debug h323 module ---[no] h323 xxx [disable]enable debug tel module ---[no] tel xxx [disable]enable debug dsp module ---[no] dsp xxx

4.3.4 download configure to flash

usage: #download tftp -ip x.x.x.x -file xxx

#download ftp -user xxx -password xxx -ip x.x.x.x -file xxx

Example: #download ftp -user abc -password 123 -ip 202.112.20.15 -file GLV-515.cfg

4.3.5 password

usage: #password

Enter new password:xxx Confirm new password:xxx

4.3.6 reload usage: #reload

Reboot system

4.3.7 show system running info

accesslist
path: <show>#

show: accesslist (firewall) settings **Example:** #<show>#accesslist

basic

path: <show># show network status **Example:** #<show>#basic

➤ call

path: <show># show current call info

Example: #<show>#call active

capability path: <show>#

show CODEC capability

Example: #<show>#capability

debugging path: <show>#

show debug info

Example:#<show>#debugging

dhcp-server

path: <show>#

show LAN status and DHCP server info

Example:#<show># dhcp-server

dial-rule

path: <show># show digital-map info

Example:#<show># dial-rule

interface

path: <show>#

show LAN info

Example:#<show>#interface fastethernet lan

show WAN info

Example:#<show>#interface fastethernet wan

ip

path: <show># show arp table info

Example:#<show>#ip arp

Show DNS server info

Example:#<show>#ip dns

Show netstate info

Example:#<show>#ip netstat

Show route info

Example:#<show>#ip route

Show icmp packets Stat.

Example:#<show>#ip icmp

Show igmp packets Stat.

Example:#<show>#ip igmp

Show ip packets Stat.

Example:#<show>#ip ip

Show RTP packets Stat.

Example:#<show>#ip rtp

Show TCP packets Stat.

Example:#<show>#ip tcp

Show UDP packets Stat.

Example:#<show>#ip udp

memory

path: <show>#

show IP phone memory

Example:#<show>#memory

> nat

path: <show># show NAT information **Example:**#<show>#nat

➤ port

path: <show># show caller-ID info

Example:#<show>#port callerID

show dsp info

Example:#<show>#port dsp

show hotline info

Example:#<show>#port hotline

show black list info

Example:#<show>#port in-limit

show outgoing limit info

Example:#<show>#port out-limit

show current phone number

Example:#<show>#port number

show current port status

Example:#<show>#port status

➤ PPPoE

path: <show># show PPPoE info

Example:#<show># pppoe

> qos

path: <show># show QoS table info **Example:**#<show>#qos

> sip

path: <show># show sip info

Example:#<show>#sip

udptunnel

path: <show># show UDP tunnel info

Example:#<show># udptunnel

> uptime

path: <show># show running time

Example:#<show># uptime

version <show># path: show IP phone version Example:#<show># version

4.3.8 telnet and logout

Usage: #telnet -target -port

Login:xxx Password:xxx

#logout

4.3.9 timesettings

<time>#

---manualset -year xxx -month xxx -day xxx -hour xxx -minute xxx -second xxx

Example:<time>#manulset -year 2004 -month 10 -day 1 -hour 8 -minitute 30 -second 0

[disable]enable SNTP server ---sntp [no] start Set SNTP IP address ---sntp server x.x.x.x Set SNTP server timeout ---sntp timeout xxx

Set timezone (-12~+12)

---sntp zone xxx Show SNTP info ---sntp show Show current time ---print

4.3.10 tracert trace network path info

usage: #tracert -host

Example:#tracert \(\text{HYPERLINK "http://www.google.com" \(\text{\text{\text{www.google.com"}}} \)

4.3.11 update IP phone

usage: # update ftp –user xxx –password xxx –ip x.x.x.x –file xxx

update tftp -ip x.x.x.x -file xxx

Example:# update ftp -user abc -password 123 -ip 202.112.20.15 -file GLV-515.dlf

4.3.12 upload configure file

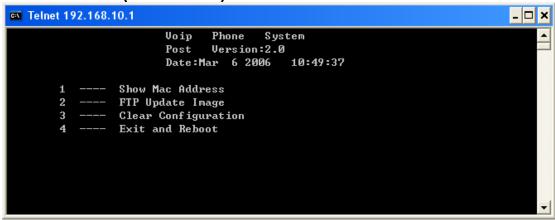
usage: # upload ftp –user xxx –password xxx –ip x.x.x.x –file xxx # upload tftp -ip x.x.x.x -file xxx

4.4 Network DiagnosisThere are some telnet commands for checking your network. Now Listing below for your information

Command	Function	Example	
ping	Check if the destination is accessible #ping www.google.com		
tracert	Show network path info #tracert www.google.com		
show basic	Show network settings #show basic		
show ip route	Show route table #show ip route		
show ip arp	Show arp table #show ip arp		
show ip netstat	Netstat programe #show ip netstat		
telnet	Telnet to another device #telnet 192.168.1.2		

4.5 Restore to factory default#setdefault clear IP phone settings expect network part
#setdefault all clear all settings.

5 POST Mode(safe mode)



GLV-515 provide safe mode. When there is booting problem because of setting problem or firmware problem. User can restore the factory setting or upgrade to a new firmware to solve this problem.

How to enter safe mode?

There will be a schedule bar in the GLV-515 booting procedure, press # key within the first 5 seconds, then the phone will go to POST mode. It has a default ip 192.168.10.1 in POST mode. User may change the PC's IP address to 192.168.10.xx and telnet to 192.168.10.1 to access the IP phone in POST mode.

User can accord the guide in post mode to clear the settings or upgrade the firmware.

6 FAQ

6.1 How many servers may GLV-515 register simultaneously?

GLV-515 is able to register two SIP servers simultaneously, and redundancy servers. User can configure the dial peer to route calls between these servers. Please refer "How to use the dial rule?" for detail.

6.2 Why the settings vanish after reboot?

Please go to Config Manage -> Save Config to save your setting always.

6.3 How to use the dial rule?

GLV-515 provide flexible dial rule, with different dial-rule configure, user can easily implement the following function:

- ----Replace, delete or add prefix of the dial number.
- ---- Make direct IP to IP call
- ----Place the call to different servers according the prefix.

You can click "Add" to add a new dial rule. Below is the detail setting of the dial-rule:

Phone Number: The Number suit for this dial rule, you can the number as full match or prefix match. Full match means that if the number use dials is the completely same as this number, the call will use this dial-rule. Prefix match means that if prefix of the number that the user dials is the same as the prefix, the call will use this dial-rule, to distinguish from the full match case, you need to add "T" after the prefix number in the phone number setting.

Call Mode: support SIP..

Destination (optional): call destination, can be IP or domain. Default is 0.0.0.0, in this case the call will be routed to the Public SIP server. If you set the destination to 255.255.255.255, then the call will be routed to the private SIP server. Also you can key other address here to make direct IP calls

Port (optional): Configure the port of the destination, default is 5060 in SIP and 1720 for H323

Alias (optional):Set up the Alias. We support four Alias as below. Alias need to co-work with the *Del Length*:

- add:xxx, add prefix to the phone number, can set to reduce the dial length.
- > all: xxx, replace the phone number with the xxx, can use as speed dial function.
- del, delete the first N numbers. N is set in the *Del Length*
- rep:xxx: replace the first N numbers. N is set in the Del Length. For Example: Use wants to place a call 8610-62281493, then you can set the *phone number* in the dial rule as 010T, and set the *Alias* as rep:8610, and set the *Del Length* to 3. Then all calls begin with 010 will be changed to 8610 xxxxxxxxx. **Suffix (optional):**Configure suffix, show no suffix if not set

Instance:



2T rule: If the call starts with 2, the first 2 will be deleted, and the rest number will be sent to private SIP server.

3T rule: If the call starts with 3, the first 3 will be deleted, and the rest number with be sent to public SIP server.

123 rule: Dial 123 and will send 8675583018049 to your server. Used as speed dial function.

0T rule: If the calls is begin with 0, the first 0 will be replace by 86. Means that if you dial 075583018049 and GLV-515 will send 8675583018049 to your server.

179 rule: when you dial 179, the call with send to 192.168.1.179, suit for LAN application without set up a sip server.

6.4 How to use speed dial function?

There are 9 speed dial keys in the GLV-515 panel, Usage:

Set speed dial number: press the speed key and enter the speed dial number and then press Menu/OK key to save the setting.

Pick up the handset and press the speed dial key to dial the pre-define number.

6.5 How to configure digital map?

Digital Map is based on some rules to judge when user end their dialing and send the number to the server. GLV-515 supports following digital map:

----End With "#": Use # as the end of dialing.

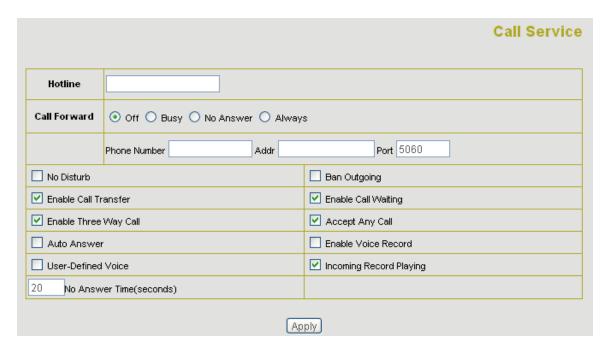
----Fixed Length: When the length of the dialing match, the call will be sent.

----Timeout: Specify the timeout of the last dial digit. The call will be sent after timeout

----Prefix + Length: If the Prefix and Length match, the call will be sent.

6.6 How to use Call Forward, Call Transfer and 3-way Conference calls?

User may set up the configuration in the *Call Service* page to use these value add service.



Call Forward:

- ----Forward when busy: select *Busy* in the *Call Forward* Field, and Key in the destination phone number in the *Forward Number*. If some one calls you when you having a call, the caller will be forwarded to the destination number.
- ----Forward no answer: Select *No Answer* in the *Call Forward* Field, and Key in the destination phone number in the *Forward Number*, fill the time in the *No Answer Time*. If some one calls you and no one answer the caller during the No Answer Time, the call will be forward to the destination number.
- ----Forward Always: Select *Always* in the *Call Forward* Field, and Key in the destination phone number in the *Forward Number*, then any one call this gateway will be forward to the destination number.

Call Transfer:

Check the Enable Call Transfer.

If A is the GLV-515 user, and B calls and talking with A through VoIP. A can **press FWD button** to hold the call with B, and then **enter C's number**. B will be transferred to C and can talk with C.

➤ 3-Way Conference Calls

Check Enable Three Way Call

Assume A is the GLV-515 user, and B calls and talking with A through VoIP. A can **press FWD button** to hold the call with B, then **enter** * and then **enter** C's **number** to talk with C, and then **press FWD button** again to make 3-way conference calls.

6.7 How to use the record function?

		Call Service	
Hotline			
Call Forward	Off O Busy O No Answer O Always		
	Phone Number Addr	Port 5060	
☐ No Disturb		☐ Ban Outgoing	
☑ Enable Call Transfer		✓ Enable Call Waiting	
☑ Enable Three Way Call		✓ Accept Any Call	
Auto Answer		☐ Enable Voice Record	
User-Defined Voice		✓ Incoming Record Playing	
20 No Answer Time(seconds)			
Apply			

GLV-515 provides record function. With this function, user may record three VoIP message and one local message.

Active answering machine:

Select "Enable Voice Record" to active answering machine, and config No Answer Time. If there is an incoming call and no one answer the call. After timeout, GLV-515 will auto answer this call and ask the caller to leave message.

Incoming Record Playing: play the message when recording.

User-Defined Voice: Use customizes greeting voice for answering machine.

Notice: GLV-515 supports three message maximum, each message can be 90 seconds. Answering will be deactivated if the message numbers is 3.

Record local message:

User may use local message to leave message to other local users.

Please refer the **Record** button function as below:

Record Function			
Level1	Level2	Description	
Received	New	New message info	
	Old	Old message info	
	Record	Enable/disable answering machine	
	Playing	Enable/disable Incoming Record Playing	
Local	Play	Play local message	
	Rec	Record local message	
User define	Switch	Enable/disable customize greeting message	
	Play	Play customize greeting message	
	Rec	Record customize greeting message	

6.8 How to use set the IP type via keypad?

In the idle mode, user may us the keypad to set the IP type as the below procedure:

Keep pressing the button 1 for changing to static mode.

Keep pressing the button 2 for changing to DHCP mode.

Keep pressing the button 3 for changing to PPPoE mode.